

CPTO/BW

08/27/04

1. (Currently amended) A device for perpendicular stratification of planary fibrous shapes, ~~above all~~ especially a fibrous web, with two elements making synchronous and reciprocating motions and connected with a driving mechanism, ~~characterized in that wherein~~ the elements (1, 2) exerting a reciprocating motion are connected with the driving mechanism (3) indirectly over at least one robust shaft (4) rigidly fitted in bearings in a rigid framework of the ~~machine~~ device, while one element (1) is coupled to the shaft (4) rigidly or over flexible joints (6), and a second element (2) is coupled by ~~means of~~ flexible joints (7) with the same shaft or with another shaft (5).

2. (Currently amended) A device according to Claim 1, characterized in ~~that wherein~~ the driving mechanism (3) consists of one driving shaft (8) with two crank assemblies (9) arranged with a phase shift to each other.

3. (Currently amended) A device according to Claim 1 characterized in ~~that wherein~~ the flexible joints (6) and (7) consist of flat steel springs with width-to-thickness ratio of more than 10.

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4. (New) A device for a perpendicular stratification of planary fibrous shapes, especially a fibrous web, comprising:
  - first and second elements making synchronous and reciprocating motions;
  - a driving mechanism comprising a rotating shaft comprising a first crank assembly;
  - a first reciprocating shaft, said first reciprocating shaft being connected to said rotating shaft through said first crank assembly, said first element being coupled with the driving mechanism through said first reciprocating shaft;
  - said second element being coupled with the driving mechanism.
5. (New) A device according to Claim 4 wherein said first element is rigidly coupled to said first reciprocating shaft.
6. (New) A device according to Claim 5 wherein said second element is coupled to said first reciprocating shaft through a first flexible joint.

7. (New) A device according to Claim 5, further comprising a second reciprocating shaft, said second element being coupled to said second reciprocating shaft through a first flexible joint, said second reciprocating shaft being connected to said rotating shaft.

8. (New) A device according to Claim 7, said rotating shaft further comprising a second crank assembly, said second reciprocating shaft being connected to said rotating shaft through said second crank assembly.

9. (New) A device according to Claim 7 wherein said first element is coupled to said first reciprocating shaft through a second flexible joint.

10. (New) A device according to Claim 8 wherein said first and second crank assemblies are arranged with a phase shift relative to each other.

11. (New) A device according to Claim 10 wherein said first element is coupled to said first reciprocating shaft through a second flexible joint.

12. (New) A device according to Claim 10 wherein said first and second flexible joints each comprises at least one flat steel spring having a width-to-thickness ratio of more than 10.

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